ACS Cycle 29 Calibration plan

ID	PI	Proposal Title	Frequency	Orbits External	Orbits Internal	Scheduling requirements	Resources required (FTE)	Products	Accuracy goal	Notes
16519	Ryon	Monitor the parameters of the Pixel- CTE	Yearly		4	June 22, same anneal	0.1	CTE Model parameters	~10%	Darks w/postflash at different intensities.
16520	Hathi**	ACS CCD Stability monitor	4x / cycle	6		~Nov,Feb,May,Jul	0.1	Flat field ref. files, geom. dist	1% for FF	L-flats, Distortion, Photometry. 47Tuc + OmegaCen
16521	Ryon	ACS Internal CTE monitor	2x / cycle		12	Nov 21, May 22	0.1	CTE webpage updates	10%	CTE EPER Test, uses LED
16522-24	McDonald	ACS CCD Daily monitor	3x/week		628	Periodic	0.5	Ref. files		Superdark, superbias creation, sink pixels
16525	Chiaberge	ACS External CTE monitor	Yearly	8		Summer 2022	0.3	Correction formula	~2% abs	Monitoring of CTE losses to calibrate phot. corr.
16526	McDonald	ACS CCD hot pixel annealing	4 weeks		156	Periodic	0.25	Ref. files, ISR		
16527	Avila	ACS SBC Photometric monitor*	Yearly	2		Early spring 22	0.1	Ref. files, zeropoints	1%	Formerly "contamination monitor", UV Sensitivity
16528	Cohen**	ACS Internal Flat Fields	2x / cycle		16	Dec 21 Jun 22	0.1	Ref. files, ISR	<1%	Track P-flats changes, uses lamps.
16529	Avila	ACS SBC Darks	2x / cycle		8	Sep 21,Mar 22	0.1		10%	
16530	Bohlin	ACS Photometric Calibration	Yearly	4		By end of cycle	0.15	Improved flux calibration	<~1%	
16531	Wheeler	ACS SBC MAMA Recovery	as needed		4	N/A	0.004			After irregular safing
16532	Hoffmann**	Postflash Calibration	yearly		6	Nov-21	0.1	Postflash calibration file	1%	Performed since Cycle 25
16533	Hoffmann	ACS/WFC Gain monitor	yearly		1	None	0.05	Gain	<5%	Performed in Cycle 25 for first time since SM4
		Total orbits for routine Cycle 29 programs		20	835		1.954			
			Non-routine programs							
16869	Hines	Enabling spectropolarimetry with ACS II		3		Nov-21	0.1	Spectropol calibration	<2%	
16871	Anderson	Astrometric Calibration of CTE		2		Nov-21	0.05	CTE astrometric correction	<25%	
16870	Chiaberge	CTEand post-flash on externded sources		3		Nov-21	0.3	Guidelines on PF use, ISR	N/A	
16893	Ryon	Commanding Overheads for ACS/WFC Subarrays			8	Same anneal	0.05	ISR	10-15%	
		Total orbits for Cycle 29		28	843		2.454			
	Notes	*New Title								
		**New PI								